

Datasheet for ABIN3042479
anti-RELB antibody (Middle Region)



[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	RELB
Binding Specificity:	AA 219-252, Middle Region
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RELB antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-Rel B/RELB Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human Rel B, identical to the related mouse sequence.
Sequence:	RHSFNNLGIQ CVRKKEIEAA IERKIQLGID PYNA
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Rel B/RELB Antibody Picoband® (ABIN3042479). Tested in WB applications. This antibody reacts with Human, Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: RELB

Alternative Name: RELB ([RELB Products](#))

Background: Synonyms: Transcription factor RelB,I-Rel,RELB,
Tissue Specificity: Widely expressed.
Background: RELB (v-rel reticuloendotheliosis viral oncogene homolog B) is also known as IREL. The International Radiation Hybrid Mapping Consortium assigned the RELB gene to chromosome 19. By RT-PCR and immunocytochemical analyses, Clark et al. (1999) showed that RELB expression correlated with dendritic cell activation. NF-kappa-B-inducing kinase is required for osteoclastogenesis in response to pathologic stimuli. Vaira et al. (2008) found that overexpression of Relb, but not Rela, rescued differentiation of mouse Nik ^{-/-} osteoclast precursors, indicating that blockade of the alternative NF-kappa-B pathway, rather than the classical NF-kappa-B pathway, is responsible for the osteoclastogenic defect in the absence of Nik. Using Relb ^{-/-} mice, they showed that Relb itself was required for Rankl-induced osteoclastogenesis in vitro and for TNF-induced bone resorption in vivo. Both Relb ^{-/-} and Nik ^{-/-} mice were resistant to tumor-mediated osteolysis. Vaira et al. (2008) concluded that the alternative NF-kappa-B pathway, via RELB, plays an essential and unique role in RANKL signaling toward osteoclast development.

Molecular Weight: 62 kDa

Gene ID: 5971

UniProt: [Q01201](#)

Pathways: [NF-kappaB Signaling](#), [RTK Signaling](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human, Mosue
1. Clark, G. J., Gunningham, S., Troy, A., Vuckovic, S., Hart, D. N.Expression of the RelB transcription factor correlates with the activation of human dendritic cells.Immunology 98: 189-196, 1999. 2. Ruben, S. M., Klement, J. F., Coleman, T. A., Maher, M., Chen, C.-H., Rosen, C. A.I-Rel: a novel rel-related protein that inhibits NF-kappa-B transcriptional activity.Genes Dev. 6: 745-760, 1992. 3. Vaira, S., Johnson, T., Hirbe, A. C., Alhawagri, M., Anwisyte, I., Sammut, B., O'Neal, J., Zou, W., Weilbaecher, K. N., Faccio, R., Novack, D. V. RelB is the NF-kappa-B subunit

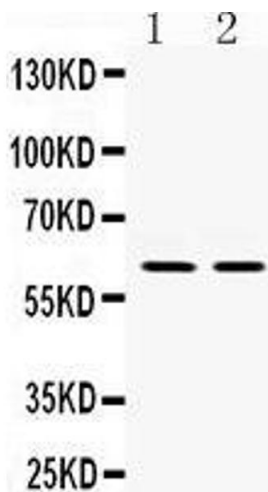
Application Details

	downstream of NIK responsible for osteoclast differentiation.Proc. Nat. Acad. Sci. 105: 3897-3902, 2008.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1.